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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,061	07/30/2002	David Bailey	8678.002.US0000	5392
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			BELL, BRUCE F	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/018.061 BAILEY ET AL. Office Action Summary Examiner Art Unit Bruce F. Bell 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-9.11-14 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.2.4-9.11-14 and 21-26 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 03 August 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date _

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other:



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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 2, 4-9, 11-14 and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over CA 910844.

CA 910844 discloses electrolytic processing for the recovery of copper, wherein the cathode blank 10 has a bottom edge 16 is provided with an inverted V-shaped grove 18 leading substantially to the cathode blank faces. See page 6, line 25 – page 7, line 2. The V-groove 18 at the bottom edge of the cathode blank 10 causes the copper to deposit at this edge in the from of dendrites which develop in directions normal to the sides of the groove. The plane at which these dendrites meet in their growth is a plane of weakness at which the deposit can readily be broken. See page 7, lines 12-17. The plane of weakness in the bottom edge deposit eliminates any serious interference with the stripping operation. See page 8, lines 26-27.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the instant invention was made because even though the prior art of CA 910844 does not specifically disclose the angle of the V-groove, the patent does disclose that the copper material when separated from the cathode plate, separates easily due to the plane of weakness in the bottom edge of the cathode plate. One having ordinary skill in the art would have the ability to perform routine

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experimentation in order to optimize this plane of weakness and further, the figure no. 3 of the CA patent shows the v-groove used in the bottom of the plate and it appears to be in the range as set forth in applicant's instant claims. Therefore, the prior art of CA 910844 renders the applicant's instant invention obvious for the reasons set forth above.

Response to Arguments

 Applicant's arguments filed June 10, 2008 have been fully considered but they are not persuasive.

Applicants argue the rejection of claims 1, 2, 4-9, 11-14 and 21-24 under 35 USC 103(a) as being unpatentable over CA 910844. Applicants arguments are with respect to the CA 910844 patent not specifically disclosing the angle of the V-groove.

It is clear from the teaching in the CA 910844 patent that the V-groove at the bottom edge of the cathode blank deposits the copper at a bottom edge which includes a v-groove and that dendrites of the copper develop in directions normal to the sides of the groove, filling a portion of the V with the copper material and where the growth of the material from each edge of the V to the center of the V, a plane of weakness forms at the bottom edge of the cathode blank where the V-groove is located and forms an area at the bottom edge in which the deposit can be readily broken. Therefore, the area of the V-groove is partially filled with copper material as in the instant invention and the center of the V-groove where the plane of weakness forms in the CA patent, is the same as the line of weakness as set forth in the instant invention. Therefore, the CA patent even though it does not disclose the specific angles of the V-groove, does

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recognize that the V-groove must be partially filled with material and must also form a line of weakness to separate the copper sheets from the cathode plate. Applicant previously has attempted to rely on the CA 910844 Figure for there measurement of the angle of the groove. However, measurement of the angle of the V-groove based on a figure that is assumed to be to scale does not set forth an accurate assessment of the patented inventions teachings. MPEP 2125 clearly states that the proportions of features in a drawing are not evidence of actual proportions when the drawings are not to scale and when the reference does not disclose that the drawings are to scale and is silent as to dimensions, arguments based on measurement of the drawing features are of little value. See Hockerson-Halberstadt, Inc. v. Avia Group Int'l, 222 F.3d 951, 956, 55 USPQ 2d 1487, 1491 (Fed. Cir. 2000). The disclosure of the above CA patent gave no indication that the drawings are to scale. Therefore, it is well established that the patented drawings do not define the precise proportions of the elements and may not be relied upon to show the particular sizes or dimension since the CA patent's specification is completely silent with respect to the drawings being to scale. Based on the teaching of the CA patent, a line of weakness and frangible area in the groove does exist since the bottom edge of the cathode blank includes a V-groove and the weakness and frangible areas do exist in that grooved area. Therefore, the CA patent renders obvious the applicants instant invention as set forth above, since it is apparent that the angles of the v-groove of the patented invention are within the ranges set forth by the applicants instant invention for the copper sheets to have a line of weakness within the V-groove, and since the material does in fact fill a portion of the area of the groove which is stated

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as being critical in applicants instant specification for the line of weakness to form.

Based on the teachings in the CA patent, since the copper fills only a portion of the V-grooved area, it would stand to reason that there would be some gas entrapment in the V-grooved area beneath the copper that fills the groove, absent evidence to the contrary.

Applicants argues that the plane of weakness defined by the patent invention of the CA patent does not describe the weakness being within the V-groove. The examiner disagrees. The patent describes that the plane of weakness is found at the base edge of the cathode plate. When the patent is describing the "base edge", they are inferring that the base edge includes the V-groove, and therefore, the plane of weakness is found on the base edge and that base edge is the V-groove, therefore, the CA patent does in fact describe that the plane of weakness is within the V-groove.

Applicant further argues that in the CA patent, that claim 3 defines an "inverted V-shaped groove in the bottom peripheral edge, and then further states the plane of weakness is formed in the copper "deposited at this edge". The examiner would like to point out that by this statement, the CA patent is saying that the "V-groove is the bottom edge" of the cathode plate. Applicant is construing the "edge" to be one side of the plate or the other side of the plate where it comes to a point, however, this is not what the CA patent is saying. The CA patent is saying that the V-groove is the bottom edge and that the entire bottom is the edge and that the V-groove takes up the entire bottom edge. Therefore, applicants arguments are moot.

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Applicant argues that the 1.132 declaration shows and discussed the criticality of the angle ray of the V-groove. The examiner would like to point out that the declaration is flawed since the applicants are using data that the drawing figure 3 has an angle of 50 degrees, which is an incorrect assumption based on a figure that is not set forth to have been drawn to scale. See MPEP 2125. Therefore, the points made by such document are moot.

Applicant further sets forth the incorporation of new claims based on PCT document PCT/Fl99/00979 stating that the use of a flexing cathode plate and a resilient stainless steel sheet, however, these aspects are not found in the original specification as set forth and the PCT/Fl99/00979 document was not incorporated by reference into the original specification and therefore, the addition of such language into the instant claims and instant specification is considered to be new matter and is requested to be withdrawn to overcome the rejection set forth above.

Applicant's further argue that the co-inventor Reville Wayne Armstrong has set forth a Rule 132 document showing the angle as the applicant has measured based on the drawings of the CA patent but again, the examiner points out that this drawing is not to scale per MPEP 2125 and therefore, applicant's submission is faulted as per the MPEP cited above. Applicants arguments with respect to where the copper deposition splits based on symmetry appears to be met by the CA patent and will remain until applicant shows criticality. It appears that both the CA patent and applicants invention both have the copper deposition that splits in a symmetrical manner and unless applicant can show that the CA patented invention does not, then the rejection as stated

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above will stand. Applicant further argues that the plane of weakness is entirely outside of the V-groove. The examiner contends that this statement is not true since the entire v-groove of the CA patent is construed by the examiner to be the bottom edge of the cathode plate. Therefore, this reasoning is found to be flawed. Applicant's appear to think that just because they pulled an arbitrary number for the angle of the CA patent out of the sky based on the drawings being to scale is incorrect since the drawings are not shown to scale as set forth by MPEP 2125 which requires that the CA patents specification specifically state that the drawings are to scale in order for this assessment to be correct. Therefore, applicants assertions, are based on flawed reasoning and the 132 declaration is considered to be flawed due to this reasoning. Since the particular angle of the v-groove of the CA patent is unknown but the CA patent does disclose that the copper deposition splits along the edge (which the examiner construes the edge to be the entire bottom of the cathode plate), it appears that the deposition will split symmetrically absent evidence to the contrary.

Therefore, the prior art of the CA Patent renders the applicants instant invention as obvious for the reasons set forth above.

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BFB September 15, 2008 /Bruce F. Bell/ Primary Examiner, Art Unit 1795 Application/Control Number: 10/018,061 Page 9

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